II. Compiled Density Data from Cores Drilled at Mizuho Station

Five separate series of density measurements, amounting to a total of 3635 measurements, were conducted for Mizuho cores in the glaciological studies of JARE-11, -12 and -13, the details of which are given in Table 1. Densities were determined with the volume measurement and weighing technique: A rectangular block, approximately 0.05 m $\times$ 0.04 m $\times$ 0.03 m in size, was cut with its wider surfaces lying horizontally form a wall of a snow pit or from drilled cores, and its dimensions were measured three times with a pair of callipers in an accuracy of 1×10^{-4} m. In the measurements of JARE-13 for 20-m pit (series D) the sizes of specimens were slightly larger, about 1×10^{-4} m^3 in volume. The accuracy of weighing was 5×10^{-5} kg, so that the overall accuracy of the density measurements was ±3 kg·m^{-3}.

Except the results of laboratory measurements of JARE-12 cores (series C) densities determined in separate measurements showed in general a fairly good agreement with each other in overlapping ranges of depth, but after examining various technical defficiencies encountered in each measurement and checking the consistency of each result with the overall density profile, we have selected the density data that are considered to be the most reasonable to construct a consistent continuous density-depth profile extending from the surface to 124 m in depth. The data we have chosen are those of series D for 0 to 4 m, those of series B for 4 to 70 m, and those of series E for 70 to 124 m, which are compiled in Tables 2 and 3. The values in Tables 2 and 3 were not corrected for temperature and pressure because reasonable information about the cubical expansion coefficient and com-

Table 1. Summary of density measurements of Mizuho cores.

Source of samples	Depth range (m)	Remarks	Series of measurements
Pit study (JARE-11)	0.0– 4.0	*In situ* measurements at −30°C by O. WATANABE.	A
Drilling (JARE-11)	4.0– 20.0		
Deep drilling (JARE-12)	3.6– 74.9	*In situ* measurements at −30°C by M. NAKAWO and T. YAMADA.	B
		Laboratory measurements at −10°C (The Institute of Low Temperature Science, Hokkaido University) by K. SATOW and H. FUSHIMI.	C
Pit study (JARE-13)	0.0– 20.0	*In situ* measurements at −30°C by H. NARITA.	D
Deep drilling (JARE-13)	13.7–124.0	Laboratory measurements at −10°C (The Institute of Low Temperature Science, Hokkaido University) by F. OKUHIRA and H. KODAMA.	E

pressibility of pressurized and deformed ice is not available, but it is considered that such corrections might only amount to 0.003% at most in transforming to *in situ* temperatures and pressures. No corrections of contained air bubbles and cracks were made either, since the density measurements were only carried out for core samples containing least and unavoidable cracks.

(Hideki NARITA and Norikazu MAENO)

*Table 2. Average density and cumulative mass per unit area for 0.5 m increments from the surface to 124 m, calculated from Table 3. The sign * indicates the single value.*

Depth (m)	Density ($kg \cdot m^{-3}$)	Cumulative mass per unit area ($kg \cdot m^{-2}$)	Depth (m)	Density ($kg \cdot m^{-3}$)	Cumulative mass per unit area ($kg \cdot m^{-2}$)
0.0– 0.5	424	212	14.5– 15.0	634	8,078
0.5– 1.0	397	411	15.0– 15.5	636	8,396
1.0– 1.5	438	630	15.5– 16.0	642	8,717
1.5– 2.0	410	835	16.0– 16.5	653	9,044
2.0– 2.5	426	1,048	16.5– 17.0	654	9,371
2.5– 3.0	429	1,263	17.0– 17.5	662	9,702
3.0– 3.5	477	1,502	17.5– 18.0	658	10,031
3.5– 4.0	446	1,725	18.0– 18.5	665	10,364
4.0– 4.5	475	1,963	18.5– 19.0	669	10,699
4.5– 5.0	501	2,214	19.0– 19.5	678	11,038
5.0– 5.5	499	2,464	19.5– 20.0	674	11,375
5.5– 6.0	535	2,732	20.0– 20.5	683	11,717
6.0– 6.5	538	3,001	20.5– 21.0	681	12,058
6.5– 7.0	560	3,281	21.0– 21.5	692	12,404
7.0– 7.5	567	3,565	21.5– 22.0	697	12,753
7.5– 8.0	555	3,843	22.0– 22.5	701	13,104
8.0– 8.5	566	4,126	22.5– 23.0	696	13,452
8.5– 9.0	567	4,410	23.0– 23.5	699	13,802
9.0– 9.5	587	4,704	23.5– 24.0	*712	14,158
9.0– 10.0	594	5,001	24.0– 24.5	714	14,515
10.0– 10.5	589	5,296	24.5– 25.0	*715	14,878
10.5– 11.0	596	5,594	25.0– 25.5	718	15,232
11.0– 11.5	607	5,898	25.5– 26.0	718	15,591
11.5– 12.0	604	6,200	26.0– 26.5	710	15,946
12.0– 12.5	613	6,507	26.5– 27.0	708	16,300
12.5– 13.0	616	6,815	27.0– 27.5	718	16,659
13.0– 13.5	621	7,126	27.5– 28.0	722	17,020
13.5– 14.0	633	7,443	28.0– 28.5	732	17,386
14.0– 14.5	636	7,761	28.5– 29.0	738	17,755

Table 2. (Continued)

Depth (m)	Density ($kg \cdot m^{-3}$)	Cumulative mass per unit area ($kg \cdot m^{-2}$)	Depth (m)	Density ($kg \cdot m^{-3}$)	Cumulative mass per unit area ($kg \cdot m^{-2}$)
29.0– 29.5	741	18,126	48.0– 48.5	808	32,776
29.5– 30.0	757	18,505	48.5– 49.0	818	33,185
30.0– 30.5	*730	18,870	49.0– 49.5	818	33,594
30.5– 31.0	723	19,232	49.5– 50.0	821	34,005
31.0– 31.5	738	19,601	50.0– 50.5	820	34,415
31.5– 32.0	756	19,979	50.5– 51.0	816	34,823
32.0– 32.5	743	20,351	51.0– 51.5	827	35,237
32.5– 33.0	748	20,725	51.5– 52.0	829	35,652
33.0– 33.5	742	21,096	52.0– 52.5	839	36,072
33.5– 34.0	752	21,472	52.5– 53.0	841	36,493
34.0– 34.5	748	21,846	53.0– 53.5	842	36,914
34.5– 35.0	752	22,222	53.5– 54.0	834	37,331
35.0– 35.5	748	22,596	54.0– 54.5	843	37,753
35.5– 36.0	749	22,971	54.5– 55.0	838	38,172
36.0– 36.5	751	23,347	55.0– 55.5	842	38,593
36.5– 37.0	754	23,724	55.5– 56.0	846	39,016
37.0– 37.5	752	24,100	56.0– 56.5	847	39,440
37.5– 38.0	748	24,474	56.5– 57.0	852	39,866
38.0– 38.5	*752	24,850	57.0– 57.5	851	40,292
38.5– 39.0	759	25,230	57.5– 58.0	851	40,718
39.0– 39.5	774	25,617	58.0– 58.5	847	41,142
39.5– 40.0	769	26,002	58.5– 59.0	854	41,569
40.0– 40.5	769	26,387	59.0– 59.5	866	42,002
40.5– 41.0	777	26,776	59.5– 60.0	857	42,431
41.0– 41.5	789	27,171	60.0– 60.5	858	42,860
41.5– 42.0	792	27,567	60.5– 61.0	850	43,285
42.0– 42.5	793	27,964	61.0– 61.5	854	43,712
42.5– 43.0	788	28,358	61.5– 62.0	858	44,141
43.0– 43.5	797	28,757	62.0– 62.5	857	44,570
43.5– 44.0	802	29,158	62.5– 63.0	861	45,001
44.0– 44.5	802	29,559	63.0– 63.5	860	45,432
44.5– 45.0	792	29,955	63.5– 64.0	862	45,863
45.0– 45.5	795	30,353	64.0– 64.5	858	46,292
45.5– 46.0	809	30,758	64.5– 65.0	859	46,722
46.0– 46.5	806	31,161	65.0– 65.5	863	47,156
46.5– 47.0	807	31,565	65.5– 66.0	863	47,590
47.0– 47.5	808	31,961	66.0– 66.5	861	48,021
47.5– 48.0	805	32,372	66.5– 67.0	869	48,456

Table 2. (Continued)

Depth (m)	Density ($kg \cdot m^{-3}$)	Cumulative mass per unit area ($kg \cdot m^{-2}$)	Depth (m)	Density ($kg \cdot m^{-3}$)	Cumulative mass per unit area ($kg \cdot m^{-2}$)
67.0– 67.5	875	48,894	86.0– 86.5	878	66,650
67.5– 68.0	873	49,328	86.5– 87.0	877	67,089
68.0– 68.5	870	49,763	87.0– 87.5	881	67,530
68.5– 69.0	864	50,193	87.5– 88.0	886	67,973
69.0– 69.5	871	50,631	88.0– 88.5	881	68,414
69.5– 70.0	875	51,069	88.5– 89.0	875	68,852
70.0– 70.5	864	51,501	89.0– 89.5	882	69,293
70.5– 71.0	861	51,932	89.5– 90.0	879	69,733
71.0– 71.5	863	52,364	90.0– 90.5	884	70,175
71.5– 72.0	864	52,796	90.5– 91.0	885	70,618
72.0– 72.5	867	53,230	91.0– 91.5	876	71,056
72.5– 73.0	865	53,663	91.5– 92.0	885	71,499
73.0– 73.5	865	54,096	92.0– 92.5	876	71,937
73.5– 74.0	865	54,529	92.5– 93.0	881	72,378
74.0– 74.5	868	54,963	93.0– 93.5	873	72,815
74.5– 75.0	864	55,395	93.5– 94.0	870	73,250
75.0– 75.5	861	55,829	94.0– 94.5	*885	73,693
75.5– 76.0	870	56,261	94.5– 95.0	890	74,138
76.0– 76.5	856	56,689	95.0– 95.5	*879	74,578
76.5– 77.0	870	57,124	95.5– 96.0	880	75,018
77.0– 77.5	871	57,560	96.0– 96.5	889	75,463
77.5– 78.0	839	57,980	96.5– 97.0	890	75,908
78.0– 78.5	854	58,407	97.0– 97.5	884	76,353
78.5– 79.0	858	58,836	97.5– 98.0	879	76,793
79.0– 79.5	855	59,264	98.0– 98.5	*877	77,232
79.5– 80.0	864	59,696	98.5– 99.0	876	77,670
80.0– 80.5	865	60,129	99.0– 99.5	877	78,109
80.5– 81.0	878	60,568	99.5–100.0	877	78,548
81.0– 81.5	874	61,005	100.0–100.5	887	78,992
81.5– 82.0	—	—	100.5–101.0	872	79,428
82.0– 82.5	873	61,879	101.0–101.5	881	79,869
82.5– 83.0	865	62,312	101.5–102.0	*883	80,311
83.0– 83.5	874	62,749	102.0–102.5	855	65,351
83.5– 84.0	877	63,187	102.5–103.0	861	65,782
84.0– 84.5	880	63,627	103.0–103.5	858	66,211
84.5– 85.0	871	64,063	103.5–104.0	*882	80,752
85.0– 85.5	856	64,491	104.0–104.5	885	81,195
85.5– 86.0	861	64,923	104.5–105.0	882	81,636

Table 2. (Continued)

Depth (m)	Density ($kg \cdot m^{-3}$)	Cumulative mass per unit area ($kg \cdot m^{-2}$)	Depth (m)	Density ($kg \cdot m^{-3}$)	Cumulative mass per unit area ($kg \cdot m^{-2}$)
105.0–105.5	*891	82,082	114.5–115.0	—	—
105.5–106.0	*869	82,517	115.0–115.5	890	90,893
106.0–106.5	*873	82,954	115.5–116.0	*865	91,326
106.5–107.0	887	83,398	116.0–116.5	—	—
107.0–107.5	881	83,839	116.5–117.0	—	—
107.5–108.0	888	84,282	117.0–117.5	*871	92,634
108.0–108.5	883	84,727	117.5–118.0	*865	93,067
108.5–109.0	880	85,167	118.0–118.5	—	—
109.0–109.5	—	—	118.5–119.0	—	—
109.5–110.0	880	86,047	119.0–119.5	—	—
110.0–110.5	870	86,482	119.5–120.0	—	—
110.5–111.0	—	—	120.0–120.5	—	—
111.0–111.5	—	—	120.5–120.5	—	—
111.5–112.0	—	—	121.0–121.5	*877	96,136
112.0–112.5	—	—	121.5–122.0	—	—
112.5–113.0	—	—	122.0–122.5	—	—
113.0–113.5	—	—	122.5–123.0	—	—
113.5–114.0	*877	89,555	123.0–123.5	887	97,910
114.0–114.5	*896	90,003	123.5–124.0	*876	98,348

Table 3. Density data, obtained by combining the series of measurements, B, D and E in Table 1.

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
0.02–0.04	347	0.78–0.80	407	1.48–1.50	418
0.05–0.07	567	0.83–0.85	408	1.53–1.55	384
0.09–0.11	380	0.88–0.90	425	1.58–1.60	434
0.23–0.25	398	0.93–0.95	465	1.63–1.65	411
0.27–0.29	422	0.98–1.00	384	1.68–1.70	477
0.37–0.39	435	1.03–1.05	525	1.73–1.75	416
0.43–0.45	419	1.08–1.10	496	1.78–1.80	399
0.48–0.50	420	1.13–1.15	414	1.83–1.85	387
0.53–0.55	388	1.23–1.25	431	1.88–1·90	444
0.58–0.60	343	1.28–1.30	445	1.93–1.95	383
0.63–0.65	365	1.33–1.35	420	1.98–2.00	367
0.68–0.70	345	1.38–1.40	410	2.03–2.05	372
0.73–0.75	439	1.43–1.45	379	2.08–2.10	474

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
2.13–2.15	448	4.18–4.21	460	5.43–5.46	485
2.17–2.19	482	4.21–4.24	463	5.46–5.49	520
2.23–2.25	485	4.24–4.27	523	5.49–5.52	508
2.28–2.30	394	4.27–4.30	522	5.52–5.55	499
2.33–2.35	381	4.30–4.33	479	5.55–5.58	522
2.38–2.40	370	4.33–4.36	466	5.58–5.61	522
2.58–2.60	434	4.39–4.42	456	5.61–5.64	519
2.63–2.65	405	4.42–4.45	448	5.64–5.67	511
2.68–2.70	452	4.45–4.48	451	5.68–5.71	551
2.73–2.75	446	4.48–4.51	467	5.71–5.74	509
2.78–2.80	411	4.51–4.54	481	5.74–5.77	506
2.83–2.85	397	4.54–4.57	530	5.77–5.80	544
2.88–2.90	390	4.60–4.63	513	5.80–5.83	553
2.93–2.95	495	4.63–4.66	525	5.83–5.86	561
3.05–3.07	469	4.66–4.69	527	5.86–5.89	562
3.10–2.12	494	4.69–4.72	530	5.89–5.92	570
3.15–3.16	434	4.72–4.75	531	5.92–5.95	565
3.20–3.21	474	4.75–4.78	537	5.97–6.00	533
3.30–3.31	490	4.78–4.81	503	6.00–6.03	512
3.35–3.37	532	4.85–4.88	457	6.03–6.06	506
3.40–3.41	544	4.88–4.91	474	6.06–6.09	490
3.45–3.47	378	4.91–4.94	464	6.09–6.12	557
3.50–3.52	451	4.94–4.97	476	6.12–6.15	550
3.55–3.57	484	4.97–5.00	468	6.15–6.18	547
3.60–3.62	459	5.00–5.03	472	6.18–6.21	537
3.65–3.66	484	5.03–5.06	486	6·21–6.24	558
3.70–3.72	481	5.06–5.09	493	6.24–6.27	548
3.75–3.77	425	5.10–5.13	452	6.27–6.30	548
3.80–3.82	381	5.13–5.16	457	6.30–6.33	537
3.85–3.87	458	5.16–5.19	458	6.33–6.36	517
3.90–3.92	440	5.19–5.22	499	6.36–6.39	554
3.95–3.97	401	5.22–5.25	521	6.39–6.42	524
3.99–4.02	481	5.25–5.28	527	6.42–6.45	558
4.02–4.05	482	5.28–5.31	528	6.45–6.48	557
4.05–4.08	453	5.31–5.34	531	6.53–6.57	511
4.09–4.12	473	5.34–5.37	523	6.56–6.59	510
4.12–4.15	489	5.37–5.40	537	6.59–6.62	518
4.15–4.18	479	5.40–5.43	482	6.62–6.65	530

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
6.65–6.68	565	7.98–8.01	561	9.24–9.27	577
6.68–6.71	577	8.01–8.04	542	9.27–9.30	593
6.71–6.74	575	8.04–8.07	588	9.30–9.33	589
6.74–6.77	574	8.07–8.10	572	9.33–9.36	594
6.77–6.80	586	8.10–8.13	576	9.36–9.39	583
6.80–6.83	589	8.17–8.20	559	9.41–9.44	615
6.84–6.87	583	8.20–8.23	544	9.44–9.47	599
6.87–6.90	577	8.23–8.26	535	9.47–9.50	593
6.90–6.93	567	8.26–8.29	573	9.50–9.53	596
6.93–6.96	588	8.29–8.32	561	9.53–9.56	593
6.96–6.99	568	8.32–8.35	558	9.56–9.59	598
6.99–7.02	542	8.35–8.38	581	9.59–9.62	597
7.02–7.05	553	8.38–8.41	570	9.66–9.69	592
7.05–7.08	545	8.43–8.46	579	9.69–9.72	598
7.08–7.11	542	8.46–8.49	580	9.72–9.75	601
7.15–7.18	593	8.49–8.52	566	9.75–9.78	605
7.18–7.21	581	8.52–8.55	580	9.78–9.81	602
7.21–7.24	573	8.55–8.58	565	9.86–9.89	600
7.24–7.27	564	8.58–8.61	571	9.89–9.92	594
7.27–7.30	555	8.61–8.64	559	9.92–9.95	586
7.30–7.33	555	8.64–8.67	578	9.95–9.98	573
7.37–7.40	573	8.67–8.70	575	9.98–10.01	584
7.43–7.47	581	8.72–8.75	515	10.01–10.04	584
7.46–7.49	580	8.75–8.78	528	10.04–10.07	592
7.49–7.52	575	8.78–8.81	558	10.10–10.13	581
7.52–7.55	569	8.81–8.84	573	10.13–10.16	585
7.55–7.58	539	8.84–8.87	587	10.16–10.19	587
7.58–7.61	518	8.87–8.90	593	10.19–10.22	589
7.61–7.64	566	8.90–8.93	587	10.22–10.25	588
7.64–7.67	583	8.93–8.96	585	10.25–10.28	593
7.67–7.70	581	8.96–8.99	575	10.28–10.31	590
7.73–7.76	578	8.99–9.02	541	10.31–10.34	591
7.76–7.79	566	9.02–9.05	563	10.34–10.37	590
7.79–7.82	542	9.05–9.08	586	10.41–10.44	595
7.82–7.85	520	9.08–9.11	574	10.44–10.47	590
7.85–7.88	520	9.15–9.18	586	10.47–10.50	597
7.88–7.91	552	9.18–9.21	583	10.50–10.53	592
7.91–7.94	569	9.21–9.24	587	10.53–10.56	592

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
10.56–10.59	584	11.82–11.85	595	13.10–13.13	618
10.59–10.62	595	11.85–11.88	605	13.13–13.16	616
10.62–10.65	585	11.88–11.91	603	13.16–13.19	606
10.65–10.68	597	11.91–11.94	602	13.19–13.22	626
10.72–10.75	595	12.03–12.06	605	13.22–13.25	621
10.75–10.78	621	12.06–12.09	613	13.25–13.28	619
10.78–10.81	618	12.09–12.12	607	13.28–13.31	629
10.81–10.84	608	12.12–12.15	606	13.31–13.34	604
10.84–10.87	580	12.15–12.18	611	13.34–13.37	609
10.87–10.90	599	12.18–12.21	610	13.38–13.41	622
10.90–10.93	592	12.21–12.24	609	13.41–13.44	632
10.93–10.96	587	12.24–12.27	605	13.44–13.47	639
10.96–10.99	589	12.27–12.30	625	13.47–13.50	635
10.99–11.02	608	12.30–12.33	620	13.50–13.53	635
11.03–11.06	633	12.33–12.36	622	13.54–13.57	644
11.06–11.09	611	12.36–12.39	624	13.57–13.60	642
11.09–11.12	614	12.39–12.42	629	13.60–13.63	625
11.12–11.15	616	12.44–12.47	611	13.63–13.66	620
11.15–11.18	611	12.47–12.50	600	13.66–13.69	622
11.18–11.21	606	12.50–12.53	602	13.69–13.72	633
11.24–11.27	601	12.53–12.56	609	13.72–13.75	630
11.27–11.30	600	12.56–12.59	619	13.75–13.78	636
11.30–11.33	598	12.59–12.62	603	13.78–13.81	634
11.33–11.36	599	12.62–12.65	612	13.81–13.84	632
11.36–11.39	606	12.65–12.68	621	13.85–13.88	635
11.39–11.42	608	12.68–12.71	612	13.88–13.91	639
11.42–11.45	596	12.71.12.74	605	13.91–13.94	635
11.45–11.48	582	12.74–12.77	605	13.94–13.97	640
11.48–11.51	624	12.81–12.84	612	13.97–14.00	626
11.55–11.58	593	12.84–12.87	619	14.00–14.03	630
11.58–11.61	601	12.87–12.90	622	14.03–14.06	635
11.61–11.64	604	12.90–12.93	634	14.06–14.09	631
11.64–11.67	599	12.93–12.96	627	14.09–14.12	641
11.67–11.70	613	12.96–12.99	629	14.12–14.15	640
11.70–11.73	618	12.99–13.02	622	14.15–14.18	645
11.73–11.76	607	13.02–13.05	624	14.18–14.21	645
11.76–11.79	604	13.05–13.08	619	14.21–14.24	650
11.79–11.82	609			14.26–14.29	632

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
14.29–14.32	627	15.53–15.56	622	16.80–16.83	658
14.32–14.35	622	15.56–15.59	619	16.83–16.86	655
14.35–14.38	631	15.59–15.62	649	16.86–16.89	648
14.38–14.41	641	15.65–15.68	607	16.89–16.92	652
14.41–14.44	637	15.68–15.71	649	16.92–16.95	655
14.44–14.47	639	15.71–15.74	652	16.95–16.98	661
14.47–14.50	631	15.74–15.77	644	16.98–17.01	675
14.50–14.53	625	15.77–15.80	644	17.01–17.04	681
14.53–14.56	620	15.80–15.83	652	17.04–17.07	652
14.56–14.59	639	15.83–15.86	657	17.08–17.11	654
14.59–14.62	648	15.86–15.89	660	17.11–17.14	662
14.65–14.68	637	15.89–15.92	649	17.14–17.17	684
14.68–14.71	649	15.95–15.98	650	17.17–17.20	663
14.71–14.74	642	15.98–16.01	648	17.20–17.23	668
14.74–14.77	636	16.01–16.04	652	17.23–17.26	662
14.77–14.80	635	16.04–16.07	651	17.26–17.29	658
14.80–14.83	636	16.07–16.10	659	17.29–12.32	671
14.83–14.86	634	16.10–16.13	658	12.32–17.35	679
14.86–14.89	607	16.13–16.16	655	17.37–17.40	642
14.91–14.94	637	16.16–16.19	649	17.40–17.43	651
14.94–14.97	644	16.19–16.22	653	17.43–17.46	659
14.97–15.00	622	16.22–16.25	657	17.46–17.49	646
15.00–15.03	629	16.25–16.28	662	17.49–17.52	656
15.03–15.06	639	16.28–16.31	644	17.52–17.55	659
15.06–15.09	644	16.31–16.34	650	17.55–17.58	644
15.09–15.12	642	16.36–16.39	654	17.58–17.61	649
15.12–15.15	642	16.39–16.42	651	17.61–17.64	649
15.15–15.18	636	16.42–16.45	653	17.68–17.71	644
15.21–15.24	654	16.45–16.48	652	17.71–17.74	653
15.24–15.27	624	16.48–16.51	655	17.74–17.77	673
15.27–15.30	625	16.51–16.54	652	17.77–17.80	672
15.30–15.33	619	16.54–16.57	650	17.80–17.83	668
15.33–15.36	635	16.57–16.60	644	17.83–17.86	668
15.36–15.39	652	16.60–16.63	646	17.86–17.89	669
15.41–15.44	652	16.68–16.71	658	17.89–17.92	660
15.44–15.47	631	16.71–16.74	648	17.92–17.95	658
15.47–15.50	618	16.74.16.77	661	17.95–17.98	651
15.50–15.53	625	16.77–16.80	648	18.00–18.03	655

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
18.03–18.06	653	19.30–19.33	667	20.59–20.62	674
18.06–18.09	671	19.33–19.36	688	20.62–20.65	680
18.09–18.12	663	19.36–13.39	700	20.65–20.68	671
18.12–18.15	668	19.42–19.45	693	20.68–20.71	675
18.15–18.18	667	19.45–19.48	698	20.73–20.76	682
18.18–18.21	666	19.48–19.51	680	20.76–20.79	673
18.21–18.24	664	19.51–19.54	672	20.79–20.82	681
18.28–18.31	667	19.54–19.57	670	20.82–20.85	686
18.31–18.34	672	19.57–19.60	675	20.85–20.88	691
18.34–18.37	664	19.60–19.63	672	20.88–20.91	689
18.37–18.40	663	19.63–19.66	675	20.91–20.94	687
18.40–18.43	678	19.66–19.69	670	20.94–20.97	680
18.43–18.46	662	19.73–19.76	668	21.06–21.09	684
18.46–18.49	664	19.76–19.79	680	21.09–21.12	710
18.49–18.52	663	19.79–19.82	674	21.12–21.15	697
18.55–18.58	663	19.82–19.85	678	21.15–21.18	697
18.58–18.61	660	19.85–19.88	677	21.18–21.21	675
18.61–18.64	651	19.88–19.91	680	21.21–21.24	675
18.64–18.67	655	19.91–19.94	678	21.24–21.27	690
18.67–18.70	661	19.94–19.97	677	21.27–21.30	703
18.70–18.73	662	19.99–20.02	670	21.30–21.33	696
18.73–18.76	666	20.02–20.05	672	21.36–21.39	691
18.76–18.79	677	20.05–20.08	692	21.39–21.42	693
18.79–18.82	673	20.08–20.11	696	21.42–21.45	682
18.83–18.86	666	20.11–20.14	689	21.45–21.48	687
18.86–18.89	670	20.14–20.17	686	21.48–21.51	705
18.89–18.92	686	20.17–20.20	701	21.51–21.54	689
18.92–18.95	685	20.20–20.23	677	21.54–21.57	689
18.95–18.98	682	20.23–20.26	673	21.57–21.60	697
18.98–19.01	686	20.29–20.32	674	21.60–12.63	701
19.01–19.04	689	20.32–20.35	679	21.63–21.67	704
19.04–19.07	685	20.35–20.38	677	21.69–21.72	705
19.12–19.15	665	20.38–20.41	686	21.72–21.75	713
19.15–19.18	660	20.41–20.44	680	21.75–21.78	707
19.18–19.21	673	20.44–20.47	685	21.78–21.81	693
19.21–19.24	674	20.50–20.53	681	21.81–21.84	700
19.24–19.27	652	20.53–20.56	681	21.84–21.87	693
19.27–19.30	670	20.56–20.59	678	21.87–21.90	686

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
21.90–21.93	691	23.14–23.17	701	26.07–26.10	715
21.93–21.96	693	23.20–23.23	697	26.10–26.13	707
21.96–21.99	696	23.23–23.26	700	26.13–26.16	713
22.02–22.05	719	23.26–23.29	703	26.16–26.19	716
22.05–22.08	703	23.29–23.32	697	26.19–26.22	713
22.08–22.11	707	23.32–23.35	704	26.22–26.25	699
22.11–21.14	701	23.67–23.70	712	26.25–26.28	705
22.14–22.17	695	24.02–24.05	728	26.28–26.31	703
22.17–22.20	684	24.05–24.08	720	26.31–26.34	702
22.20–22.23	692	24.08–24.11	729	26.34–26.37	701
22.23–22.26	719	24.11–24.14	706	26.37–26.40	707
22.29–22.31	713	24.14–24.17	715	26.40–26.43	721
22.32–22.35	703	24.17–24.20	716	26.43–26.46	719
22.35–22.38	685	24.20–24.23	710	26.46–26.49	719
22.38–22.41	690	24.25–24.28	707	26.49–26.52	717
22.41–22.44	701	24.28–24.31	702	26.52–26.55	713
22.44–22.47	694	24.31–24.34	711	26.55–26.58	725
22.47–22.50	704	24.34–24.37	711	26.60–26.63	706
22.50–22.53	718	24.84–24.87	715	26.63–26.66	702
22.53–22.56	713	25.35–25.38	723	26.66–26.69	695
22.59–22.62	694	25.38–25.41	719	26.69–26.72	712
22.62–22.65	707	25.45–25.48	711	26.72–26.75	719
22.65–22.68	679	25.52–25.55	708	26.75–27.78	713
22.68–22.71	676	25.55–25.58	719	26.78–28.81	717
22.71–22.74	694	25.58–25.61	713	26.81–26.84	720
22.74–22.77	702	25.61–25.64	725	26.84–26.87	716
22.77–22.80	699	25.64–25.67	722	26.87–26.90	714
22.80–22.83	685	25.67–25.70	714	26.90–26.93	697
22.83–22.86	702	25.70–25.73	726	26.93–26.96	694
22.86–22.89	693	25.73–25.76	723	26.96–26.99	687
22.90–22.93	683	25.76–25.79	723	26.99–27.02	701
22.93–22.96	693	25.79–25.82	710	27.02–27.05	722
22.96–22.99	699	25.82–25.85	719	27.11–26.14	701
22.99–23.02	696	25.85–25.88	719	27.14–27.17	715
23.02–23.05	692	25.88–25.91	720	27.17–27.20	711
23.05–23.08	687	25.91–25.94	713	27.20–27.23	710
23.08–23.11	706	26.01–26.04	701	27.23–27.26	741
23.11–23.14	703	26.04–26.07	714	27.26–27.29	727

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
27.29–27.32	722	29.09–29.12	746	31.45–31.48	732
27.32–27.35	725	29.12–29.15	741	31.48–31.51	720
27.38–27.41	715	29.15–29.18	733	31.51–31.54	761
27.41–27.44	718	29.18–29.21	756	31.54–31.57	770
27.44–27.47	711	29.21–29.24	742	31.57–31.60	768
27.47–27.50	715	29.24–29.27	747	31.60–31.63	770
27.50–27.53	714	29.31–29.34	747	31.63–31.66	763
27.53–27.56	718	29.34–29.37	752	31.66–31.69	773
27.56–27.59	719	29.37–29.40	740	31.69–31.72	759
27.59–27.62	724	29.40–29.43	748	31.72–31.75	753
27.66–27.69	725	29.43–29.46	737	31.75–31.78	737
27.69–27.72	719	29.46–29.49	736	31.81–31.84	755
27.72–27.75	723	29.49–29.52	744	31.84–31.87	747
27.75–27.78	720	29.52–29.55	757	31.87–31.90	750
77.78–27.81	724	29.55–29.58	765	31.90–31.93	749
27.81–27.84	725	29.58–29.61	764	31.93–31.96	745
27.84–27.87	726	29.97–30.00	740	31.96–31.99	754
28.14–28.17	730	30.35–30.38	730	31.99–32.02	749
28.44–28.47	738	30.74–30.77	733	32.05–32.08	749
28.47–28.50	728	30.77–30.80	728	32.08–32.11	743
28.50–28.53	729	30.80–30.83	705	32.11–32.14	714
28.53–28.56	734	30.83–30.86	732	32.14–32.17	747
28.56–28.59	733	30.94–30.97	725	32.17–32.20	747
28.59–28.62	735	30.97–31.00	715	32.20–32.23	751
28.62–28.65	732	31.00–31.03	712	32.23–32.26	750
28.65–28.68	716	31.03–31.06	721	32.26–32.29	751
28.70–28.73	729	31.06–31.09	735	32.29–32.32	755
28.73–28.76	741	31.09–31.12	724	32.35–32.38	750
28.76–28.79	744	31.12–31.15	723	32.38–32.41	732
28.79–28.82	742	31.15–31.18	731	32.41–32.44	739
28.82–28.85	735	31.21–31.24	763	32.44–32.47	736
28.85–28.88	748	31.24–31.27	761	32.47–32.50	734
28.88–28.91	747	31.27–31.30	753	32.50–32.53	736
28.91–28.94	753	31.30–31.33	755	32.53–32.56	736
28.94–28.97	745	31.33–31.36	712	32.56–32.59	735
29.00–29.03	722	31.36–31.39	727	32.59–32.62	737
29.03–29.06	724	31.39–31.42	752	32.65–32.68	744
29.06–29.09	739	31.42–31.45	789	32.68–32.71	758

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
32.71–32.74	759	33.95–33.98	765	35.32–35.35	759
32.76–32.79	749	33.98–34.01	760	35.35–35.38	759
32.79–32.82	761	34.01–34.04	755	35.38–35.41	761
32.82–32.85	755	34.04–34.07	749	35.41–35.44	748
32.85–32.88	757	34.10–34.13	724	35.44–35.47	751
32.88–32.91	755	34.13–34.16	732	35.52–35.55	753
32.91–32.94	755	34.16–34.19	739	35.55–35.58	722
32.96–42.99	739	34.19–34.22	762	35.58–35.61	735
32.99–33.02	740	34.22–34.25	740	35.61–35.64	733
33.02–33.05	742	34.25–34.28	746	35.64–35.67	735
33.05–33.08	741	34.28–34.31	748	35.72–35.75	761
33.08–33.11	742	34.34–34.37	745	35.75–35.78	767
33.11–33.14	740	34.37–34.40	752	35.78–35.81	760
33.14–33.17	747	34.44–34.47	748	35.81–35.84	761
33.17–33.20	757	34.47–34.50	778	35.84–35.87	753
33.20–33.23	756	34.50–34.53	736	35.92–35.95	751
33.26–33.29	733	34.53–34.56	752	35.95–35.98	761
33.29–33.32	734	34.56–34.59	749	35.98–36.01	741
33.32–33.35	736	34.59–34.62	753	36.01–36.04	741
33.35–33.38	747	34.62–34.65	751	36.08–36.11	746
33.38–33.41	739	34.65–34.68	752	36.11–36.14	744
33.41–33.44	739	34.68–34.71	749	36.14–36.17	746
33.44–33.47	740	34.78–34.81	770	36.17–36.20	756
33.47–33.50	736	34.81–34.84	756	36.20–36.23	771
33.50–33.53	782	34.84–34.87	761	36.23–36.26	765
33.53–33.56	739	34.87–34.90	758	36.36–36.39	750
33.58–33.61	747	34.90–34.93	757	36.48–36.51	740
33.61–33.64	737	34.93–34.96	749	36.51–36.54	740
33.64–33.67	735	34.96–34.99	746	36.54–36.57	738
33.67–33.70	719	34.99–35.02	744	36.58–36.61	761
33.70–33.73	749	35.02–35.05	757	36.61-36.64	771
33.73–33.76	772	35.05–35.08	743	36.64–36.67	755
33.76–33.79	757	35.08–35.11	753	36.67–36.70	745
33.80–33.83	763	35.17–35.20	726	36.70–36.73	755
33.83–33.86	745	35.20–35.23	742	36.73–36.76	755
33.86–33.89	739	35.23–35.26	741	36.76–36.79	768
33.89–33.92	754	35.26–35.29	743	36.81–36.84	750
33.92–33.95	763	35.29–35.32	744	36.84–36.87	757

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
36.87–36.90	754	39.37–39.40	773	40.65–40.68	761
36.90–36.93	756	39.40–39.43	768	40.68–40.71	774
36.93–36.96	753	39.49–39.52	765	40.79–40.82	762
36.96–36.99	755	39.52–39.55	768	40.82–40.85	778
36.99–37.02	751	39.55–39.58	761	40.85–40.88	777
37.02–37.05	753	39.60–39.63	783	40.88–40.91	782
37.05–37.08	753	39.63–39.66	782	40.91–40.94	797
37.08–37.11	756	39.66–39.69	770	40.94–40.97	787
37.25–37.28	750	39.69–39.72	767	40.97–41.00	780
37.42–37.45	746	39.72–39.75	764	41.00–41.03	787
37.45–37.48	745	39.75–39.78	765	41.06–41.09	786
37.48–37.51	761	39.78–39.81	767	41.09–41.12	778
37.51–37.54	747	39.81–39.84	771	41.12–41.15	777
37.54–37.57	749	39.84–39.87	771	41.15–41.18	786
37.57–37.60	740	39.88–39.91	779	41.18–41.21	792
37.60–37.63	740	39.91–39.94	773	41.21–41.24	796
37.63–37.66	759	39.94–39.97	757	41.24–41.27	793
37.66–37.69	751	39.97–40.00	761	41.27–41.30	795
37.69–37.72	744	40.00–40.03	752	41.30–41.33	785
38.16–38.19	752	40.03–40.06	752	41.35–41.38	786
38.62–38.65	764	40.06–40.09	780	41.38–41.41	785
38.65–38.68	762	40.09–40.12	771	41.40–41.43	803
38.68–38.71	750	40.12–40.15	768	41.43–41.46	806
38.71–38.74	754	40.17–40.20	758	41.46–41.49	784
38.74–38.77	744	40.20–40.23	773	41.52–41.55	789
38.80–38.83	751	40.23–40.26	772	41.55–41.58	786
38.83–38.86	756	40.26–40.29	784	41.58–41.61	774
38.86–38.89	766	40.29–40.32	774	41.61–41.64	787
38.89–38.92	770	40.32–40.35	777	41.64–41.67	797
38.92–38.95	771	40.35–40.38	783	41.67–41.70	787
38.95–38.98	766	40.38–40.41	769	41.70–41.73	796
38.98–39.01	757	40.41–40.44	756	41.73–41.76	796
39.08–39.11	770	40.47–40.50	762	41.81–41.89	796
39.17–39.20	779	40.50–40.53	802	41.84–41.87	790
39.20–39.23	779	40.53–40.56	786	41.87–41.90	801
39.23–39.26	778	40.56–40.59	766	41.90–41.93	799
39.26–39.29	794	40.59–40.62	772	41.93–41.96	800
39.31–39.34	766	40.62–40.65	757	41.96–41.99	787
39.34–39.37	766			42.05–42.08	788

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
42.08–42.11	796	43.43–43.46	807	44.85–44.88	793
42.11–42.14	801	43.46–43.49	789	44.88–44.91	789
42.17–42.20	789	43.49–43.52	794	44.91–44.94	786
42.20–42.23	784	43.52–45.55	781	44.99–45.02	809
42.23–42.26	793	43.55–43.58	797	45.02–45.05	807
42.26–42.29	794	43.58–43.61	805	45.05–45.08	799
42.29–42.32	794	43.67–43.70	807	45.08–45.11	791
42.32–42.35	793	43.70–43.73	798	45.11–45.14	797
42.35–42.38	796	43.73–43.76	785	45.14–45.17	792
42.45–42.48	791	43.76–43.79	837	45.17–45.20	788
42.48–42.51	801	43.79–43.82	807	45.20–45.23	780
42.51–42.54	797	43.83–43.86	834	45.25–45.28	795
42.54–42.57	788	43.86–43.89	808	45.28–45.31	792
42.57–42.60	796	43.89–43.92	788	45.31–45.34	789
42.60–42.63	813	43.92–43.95	792	45.34–45.37	800
42.63–42.66	783	43.95–43.98	793	45.41–45.44	798
42.66–42.69	790	43.98–44.01	802	45.44–45.47	802
42.72–42.75	793	44.01–44.04	799	45.47–45.50	803
42.75–42.78	774	44.12–44.15	796	45.50–45.53	816
42.78–42.81	778	44.15–44.18	806	45.53–45.56	813
42.82–42.85	779	44.18–44.21	803	45.56–45.59	802
42.85–42.88	776	44.21–44.24	805	45.59–45.62	791
42.88–42.91	786	44.24–44.27	798	45.69–45.72	804
42.91–42.94	785	44.27–44.30	797	45.72–45.75	805
42.94–42.97	786	44.30–44.33	804	45.75–45.78	820
42.97–43.00	785	44.33–44.36	800	45.78–45.81	814
43.00–43.03	787	44.42–44.45	795	45.81–45.84	792
43.08–43.11	787	44.45–44.48	818	45.84–45.87	803
43.11–43.14	786	44.53–44.56	791	45.87–45.90	802
43.14–43.17	777	44.56–44.59	795	45.90–45.93	822
43.17–43.20	810	44.59–44.62	798	45.95–45.98	824
43.20–43.23	807	44.62–44.65	810	45.98–46.01	820
43.23–43.26	806	44.65–44.68	793	46.01–46.04	798
43.26–43.29	804	44.68–44.71	804	46.04–46.07	796
43.29–43.32	806	44.71–44.74	800	46.07–46.10	781
43.32–43.35	789	44.74–44.77	794	46.13–46.16	790
43.40–43.43	806	44.79–44.82	794	46.16–46.19	795
		44.82–44.85	794	46.19–46.22	803
				46.22–46.25	803

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
46.29–46.32	815	47.72–47.75	811	49.14–49.17	829
46.32–46.35	820	47.75–47.78	813	49.17–49.20	800
46.35–46.38	820	47.78–47.81	806	49.20–49.23	804
46.38–46.41	818	47.81–47.84	809	49.23–49.26	800
46.43–46.46	823	47.84–47.87	806	49.26–49.29	818
46.46–46.49	804	47.87–47.90	804	49.32–49.35	825
46.49–46.52	820	47.94–47.97	800	49.35–49.38	824
46.52–46.55	812	47.97–48.00	803	49.38–49.41	823
46.55–46.58	842	48.00–48.03	796	49.41–49.44	822
46.58–46.61	820	48.03–48.06	800	49.44–49.47	832
46.61–46.64	815	48.06–48.09	801	49.47–49.50	819
46.64–46.67	823	48.09–48.12	815	49.59–49.62	830
46.70–46.73	813	48.12–48.15	814	49.62–49.65	816
46.73–46.76	801	48.15–48.18	800	49.65–49.68	822
46.76–46.79	813	48.20–48.23	821	49.68–49.71	827
46.79–46.82	810	48.23–48.26	821	49.74–49.77	825
46.82–46.85	811	48.26–49.29	820	49.77–49.80	817
46.85–46.88	807	48.29–48.32	817	49.80–49.83	812
46.88–46.91	780	48.36–48.39	809	49.84–49.87	815
46.91–46.94	778	48.39–48.42	804	49.87–49.90	823
46.98–47.01	778	48.42–48.45	805	49.90–49.93	819
47.01–47.04	796	48.45–48.48	793	50.00–50.03	813
47.06–47.09	803	48.51–48.54	805	50.03–50.06	823
47.10–47.13	806	48.54–48.57	812	50.06–50.09	818
47.13–46.16	806	48.61–48.64	825	50.09–50.12	839
47.16–47.19	812	48.64–48.67	825	50.12–50.15	815
47.19–47.22	809	48.67–48.70	826	50.16–50.19	809
47.31–47.34	821	48.70–48.73	818	50.19–50.22	812
47.34–47.37	815	48.73–48.76	820	50.22–50.25	808
47.37–47.40	818	48.76–48.79	823	50.25–50.28	798
47.40–47.43	817	48.79–48.82	818	50.28–50.31	817
47.46–47.49	801	48.85–48.88	813	50.36–50.39	837
47.49–47.52	796	48.88–48.91	808	50.39–50.42	835
47.52–47.55	804	48.91–48.94	819	50.42–50.45	821
47.55–47.58	795	48.94–48.97	823	50.45–50.48	829
47.63–47.66	815	49.02–49.05	808	50.48–50.51	821
47.66–47.69	817	49.05–49.08	824	50.51–50.54	809
47.69–47.72	786	49.08–49.11	823	50.54–50.57	807
		49.11–49.14	819		

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
50.60–50.63	816	52.31–52.34	837	53.82–53.85	839
50.63–50.66	783	52.34–52.37	835	53.85–53.88	845
50.66–50.69	817	52.37–52.40	859	53.88–53.91	846
50.69–50.72	803	52.40–52.43	834	53.91–53.94	847
50.82–50.85	827	52.47–52.50	846	54.00–54.03	846
50.85–50.88	816	52.50–52.53	845	54.03–54.06	836
50.93–50.96	840	52.53–52.56	843	54.06–54.09	840
50.96–50.99	828	52.56–52.59	843	54.09–54.12	837
50.99–51.02	828	52.59–52.62	841	54.12–54.15	844
51.02–51.05	834	52.62–52.65	857	54.15–54.18	843
51.05–51.08	837	52.69–52.72	845	54.18–54.21	842
51.08–51.11	830	52.72–52.75	835	54.24–54.27	845
51.15–51.18	815	52.75–52.78	834	54.27–54.30	850
51.18–51.21	837	52.83–52.86	831	54.30–54.33	849
51.21–51.24	803	52.86–52.89	835	54.33–54.36	845
51.24–51.27	827	52.89–52.92	837	54.36–54.39	847
51.27–51.30	829	52.92–52.95	840	54.39–54.42	842
51.42–51.45	830	53.03–53.06	835	54.42–54.45	835
51.58–51.61	831	53.06–53.09	867	54.45–54.48	839
51.61–51.64	833	53.13–53.16	843	54.48–54.51	842
51.64–51.67	831	53.16–53.19	848	54.53–54.56	834
51.67–51.70	830	53.19–53.22	842	54.56–54.59	833
51.70–51.73	837	53.22–53.25	841	54.59–54.62	841
51.78–51.81	836	53.25–53.28	830	54.62–54.65	823
51.81–51.84	826	53.28–53.31	827	54.65–54.68	822
51.84–51.87	825	53.38–53.41	846	54.68–54.71	839
51.87–51.90	828	53.41–53.44	840	54.71–54.74	840
51.90–51.93	824	53.44–53.47	840	54.74–54.77	830
51.93–51.96	824	53.47–53.50	844	54.77–54.80	839
51.96–51.99	834	53.50–53.53	841	54.87–54.90	842
51.99–52.02	822	53.56–53.59	827	54.90–54.93	848
52.02–52.05	827	53.59–53.62	834	54.93–54.96	846
52.08–52.11	831	53.62–53.65	835	54.96–54.99	843
52.11–52.14	844	53.65–53.68	826	54.99–55.02	850
52.14–52.17	845	53.68–53.71	804	55.02–55.05	847
52.17–52.20	837	53.71–53.74	833	55.05–55.08	849
52.20–52.23	832	53.76–53.79	843	55.08–55.11	844
52.23–52.26	838	53.79–53.82	827	55.17–55.20	841

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
55.20–55.23	839	56.48–56.51	843	57.81–57.84	855
55.23–55.26	838	56.51–56.54	840	57.84–57.87	849
55.26–55.29	847	56.57–56.60	839	57.92–57.95	852
55.29–55.32	832	56.63–56.66	857	57.95–57.98	853
55.32–55.35	836	56.66–56.69	846	57.98–58.01	850
55.35–55.38	832	56.69–56.72	851	58.01–58.04	848
55.38–55.41	844	56.72–56.75	854	58.04–58.07	838
55.41–55.44	849	56.75–56.78	853	58.07–58.10	839
55.48–55.51	846	56.78–56.81	853	58.10–58.13	843
55.51–55.54	842	56.81–56.84	847	58.13–58.16	844
55.54–55.57	845	56.84–56.87	850	58.20–58.23	845
55.57–55.60	839	56.87–56.90	886	58.23–58.26	847
55.60–55.63	840	56.94–56.97	859	58.26–58.29	859
55.63–55.66	841	56.97–57.00	847	58.29–58.32	846
55.66–55.69	843	57.00–57.03	849	58.32–58.35	852
55.69–55.72	850	57.03–57.06	852	58.35–58.38	851
55.72–55.75	853	57.06–57.09	857	58.38–58.41	847
55.76–55.79	851	57.09–57.12	853	58.41–58.44	847
55.79–55.82	848	57.12–57.15	853	58.44–58.47	846
55.82–55.85	849	57.18–57.21	858	58.50–58.53	854
55.85–55.88	846	57.21–57.24	853	58.53–58.56	854
55.88–55.91	843	57.24–57.27	856	58.56–58.59	849
55.91–55.94	848	57.27–57.30	850	58.59–58.62	850
55.94–55.97	852	57.30–57.33	854	58.62–58.65	854
55.97–56.00	842	57.33–57.36	854	58.65–58.68	840
56.00–56.03	839	57.36–57.39	849	58.81–58.84	861
56.10–56.13	844	57.39–57.42	847	58.91–58.94	855
56.13–56.16	845	57.42–57.45	840	58.94–58.97	851
56.16–56.19	843	57.47–57.50	835	58.97–59.00	869
56.19–56.22	851	57.50–57.53	843	59.00–59.03	878
56.22–56.25	852	57.53–57.56	846	59.03–59.06	882
56.25–56.28	851	57.56–57.59	855	59.06–59.09	873
56.28–56.31	852	57.59–57.62	856	59.23–59.26	865
56.33–56.36	856	57.62–57.65	857	59.41–59.44	861
56.36–56.39	851	57.65–57.68	853	59.44–59.47	853
56.39–56.42	845	57.68–57.71	846	59.47–59.50	853
56.42–56.45	847	57.71–57.74	846	59.50–59.53	850
56.45–56.48	844	57.78–57.81	855	59.53–59.56	853

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
59.56–59.59	857	60.98–61.01	852	62.23–62.26	858
59.59–59.62	853	61.01–61.04	857	62.32–62.35	857
59.62–59.65	861	61.04–61.07	848	62.35–62.38	855
59.70–59.73	854	61.07–61.10	843	62.38–62.41	857
59.73–59.76	859	61.10–61.13	846	62.41–62.44	855
59.76–59.79	858	61.13–61.16	852	62.48–62.51	844
59.79–59.82	863	61.16–61.19	866	62.51–62.54	862
59.85–59.88	861	61.19–61.22	854	62.54–62.57	865
59.88–59.91	858	61.24–61.27	851	62.57–62.60	861
59.91–59.94	861	61.27–61.30	854	62.60–62.63	864
59.96–59.99	861	61.30–61.33	853	62.63–62.66	854
59.99–60.02	855	61.33–61.36	860	62.66–62.69	867
60.02–60.05	861	61.36–61.39	854	62.69–62.72	852
60.05–60.08	860	61.39–61.42	862	62.76–62.79	869
60.08–60.11	858	61.32–61.35	856	62.79–62.82	858
60.11–60.14	856	61.45–61.48	848	62.82–62.85	855
60.14–60.17	858	61.53–61.56	863	62.85–62.88	862
60.20–60.23	861	61.56–61.59	864	62.88–62.91	859
60.23–60.26	851	61.59–61.62	864	62.91–62.94	865
60.26–60.29	853	61.62–61.65	861	62.94–62.97	858
60.29–60.32	858	61.65–61.68	861	62.97–63.00	864
60.32–60.35	858	61.68–61.71	859	63.00–63.03	861
60.35–60.38	860	61.71–61.74	862	63.04–63.07	864
60.38–60.41	862	61.74–61.77	850	63.07–63.10	862
60.41–60.44	854	61.77–61.80	835	63.10–63.13	858
60.44–60.47	861	61.83–61.86	860	63.13–63.16	858
60.52–60.55	862	61.86–61.89	855	63.16–63.19	865
60.55–60.58	866	61.89–61.92	858	63.19–63.22	857
60.66–60.69	842	61.92–61.95	858	63.27–63.30	854
60.69–60.72	850	61.95–61.98	859	63.30–63.33	871
60.72–60.75	848	61.98–62.01	859	63.33–63.36	865
60.75–60.78	845	62.01–62.04	859	63.36–63.39	854
60.78–60.81	855	62.04–62.07	849	63.48–63.51	855
60.81–60.84	845	62.08–62.11	865	63.51–63.54	870
60.84–60.87	862	62.11–62.14	858	63.59–63.62	852
60.87–60.90	848	62.14–62.17	861	63.62–63.65	857
60.90–60.93	839	62.17–62.20	854	63.65–63.68	869
60.95–60.98	842	62.20–62.23	864	63.68–63.71	862

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
63.71-63.74	859	65.50-65.53	868	66.80-66.83	872
63.74-63.77	862	65.53-65.56	866	66.89-66.92	853
63.77-63.80	862	65.56-65.59	861	66.92-66.95	861
63.80-63.83	859	65.59-65.62	865	66.95-66.98	858
63.86-63.89	863	65.62-65.65	867	66.98-67.01	882
63.89-63.92	860	65.70-65.73	868	67.07-67.10	869
63.92-63.95	861	65.73-65.76	862	67.10-67.13	872
63.95-63.98	861	65.76-65.79	862	67.13-67.14	874
63.98-64.01	865	65.79-65.82	863	67.16-67.19	873
64.01-64.04	866	65.82-65.85	856	67.19-67.22	875
64.04-64.07	855	65.85-65.88	856	67.22-67.25	872
64.07-64.10	842	65.91-65.94	868	67.25-67.28	876
64.10-64.13	855	65.94-65.97	859	67.40-67.43	910
64.23-64.26	861	65.97-66.00	865	67.43-67.46	870
64.26-64.29	866	66.00-66.03	872	67.46-67.49	871
64.29-64.32	863	66.03-66.06	851	67.49-67.52	868
64.32-64.35	853	66.06-66.09	862	67.52-67.55	862
64.35-64.38	858	66.09-66.12	866	67.55-67.58	867
64.38-64.41	857	66.12-66.15	871	67.62-67.65	875
64.41-64.44	861	66.18-66.21	864	67.65-67.68	878
64.55-64.58	863	66.21-66.24	870	67.68-67.71	876
64.59-64.62	865	66.24-66.27	869	67.71-67.74	871
64.72-64.75	861	66.27-66.30	889	67.76-67.79	871
64.87-64.90	857	66·30-66.33	857	67.79-67.82	872
64.90-64.93	858	66.33-66.36	876	67.82-67.85	878
64.93-64.96	855	66.39-66.42	869	67.85-67.88	875
64.96-64.99	856	66.42-66.45	867	67.88-67.91	875
65.06-65.09	865	66.45-66.48	871	67.95-67.98	872
65.09-65.12	859	66.48-66.51	868	67.98-68.01	871
65.16-65.19	861	66.51-66.54	873	68.01-68.04	867
65.19-65.22	858	66.54-66.57	868	68.04-68.07	864
65.22-65.25	857	66.57-66.60	865	68.07-68.10	873
65.25-65.28	869	66.62-66.65	872	68.10-68.13	870
65.28-65.31	856	66.65-66.68	851	68.13-68.16	866
65.31-65.34	869	66.68-66.71	884	68.16-68.19	865
65.34-65.37	866	66.71-66.74	868	68.19-68.22	870
65.37-65.40	863	66.74-66.77	885	68.25-68.28	870
65.47-65.50	870	66.77-66.80	871	68.28-68.31	871

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
68.31–68.34	874	69.80–69.83	868	74.72–74.74	871
68.34–68.37	871	69.83–69.86	870	74.84–74.86	857
68.37–68.40	869	69.86–69.89	874	74.98–75.00	871
68.40–68.43	869	69.96–69.99	877	75.16–75.19	857
68.43–68.46	874	70.01–70.03	873	75.31–75.33	855
68.56–68.59	871	70.17–70.20	854	75.49–75.51	871
68.59–68.62	872	70.29–70.32	864	75.68–75.70	876
68.62–68.65	863	70.44–70.47	864	75.85–75.87	866
68.69–68.72	872	70.53–70.55	859	75.98–76.00	867
68.72–68.75	861	70.66–70.69	858	76.10–76.12	875
68.75–68.78	867	70.82–70.84	865	76.23–76.25	859
68.78–68.81	844	70.94–70.97	861	76.40–76.43	863
68.81–68.84	842	71.07–71.09	859	76.60–76.62	864
68.93–68.96	869	71.12–71.14	864	76.75–76.78	877
68.96–68.99	877	71.19–71.22	873	76.90–76.93	869
68.99–69.02	867	71.29–71.31	856	77.10–77.13	879
69.02–69.05	871	71.44–71.46	862	77.15–77.17	876
69.05–69.08	870	71.56–71.58	875	77.24–77.26	867
69.08–69.11	869	71.74–71.76	876	77.30–77.32	865
69.11–69.14	873	71.89–71.91	861	77.40–77.42	868
69.14–69.17	869	72.09–72.11	863	77.73–77.75	866
69.19–69.22	873	72.28–72.30	873	77.80–77.83	797
69.22–69.25	877	72.41–72.43	866	77.92–77.94	854
69.25–69.28	871	72.71–72.73	866	78.10–78.13	875
69.28–69.31	870	72.81–72.83	872	78.25–78.28	847
69.31–69.34	870	72.96–72.98	858	78.40–78.42	839
69.34–69.37	876	73.05–73.07	858	78.50–78.53	
69.37–69.40	872	73.18–73.20	873	78.78–78.80	859
69.40–69.43	874	73.33–73.35	866	78.83–78.85	855
69.48–69.51	860	73.44–73.46	861	79.01–79.04	850
69.51–69.54	867	73.59–73.61	863	79.15–79.18	874
69.54–69.57	871	73.73–73.75	858	79.33–79.36	847
69.57–69.60	873	73.77–73.79	873	79.47–79.49	847
69.60–69.63	874	73.97–73.99	865	79.65–79.67	873
69.63–69.66	900	74.12–74.15	873	79.75–79.78	865
69.71–69.74	873	74.27–74.29	866	79.90–79.93	851
69.74–69.77	878	74.47–74.51	866	80.13–80.15	867
69.77–69.80	871	74.61–74.63	858	80.27–80.30	866

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
80.38–80.40	861	87.85–87.87	877	95.02–95.04	877
80.70–80.73	879	88.00–88.02	877	95.23–95.25	880
80.82–80.85	874	88.20–88.23	883	95.42–95.44	861
81.23–81.26	883	88.46–88.49	872	95.70–95.73	885
81.33–81.35	864	88.60–88.63	881	96.03–96.05	891
82.10–82.13	851	88.87–88.89	881	96.20–96.22	888
82.25–82.27	871	89.00–89.02	878	96.82–96.84	879
82.40–82.42	898	89.15–89.17	885	97.02–97.05	877
82.50–82.52	861	89.33–89.36	894	97.30–97.32	882
82.67–82.69	857	89.60–89.63	882	97.52–97.55	891
82.80–82.83	871	89.69–89.71	868	97.67–97.69	892
82.95–82.97	870	89.88–89.91	892	97.84–97.86	883
83.12–83.15	867	90.11–90.14	885	98.09–98.11	895
83.33–83.35	878	90.31–90.33	873	98.33–98.36	885
83.44–83.46	878	90.43–90.46	868	98.50–98.52	888
83.56–83.58	886	90.67–90.69	886	98.68–98.70	880
83.72–83.74	870	90.85–90.88	877	99.10–99.12	881
83.82–83.84	875	91.00–91.02	873	99.38–66.40	877
84.07–84.09	875	91.20–91.23	889	99.71–99.73	877
84.20–84.22	876	91.38–91.40	875	100.14–100.16	883
84.45–84.47	888	91.56–91.58	892	100.43–100.45	869
84.66–84.69	883	91.67–91.69	873	100.58–100.60	868
84.92–84.94	870	91.85–91.87	888	100.68–100.70	885
84.97–84.99	860	92.02–92.04	879	101.00–101.02	877
85.08–85.10	856	92.20–92.22	896	101.30–101.32	876
85.50–85.52	855	92.37–92.39	879	101.50–101.52	890
85.70–85.72	867	92.65–92.68	856	101.68–101.70	884
85.86–85.88	862	92.85–92.87	884	102.01–102.03	874
86.03–86.05	855	92.95–92.97	889	102.30–102.32	876
86.26–86.28	855	93.15–93.17	885	102.47–102.49	867
86.53–86.56	867	93.37–93.40	885	102.57–102.59	867
86.62–86.64	868	93.67–93.69	875	102.64–102.66	885
86.80–86.82	848	93.75–93.77	877	102.90–102.92	891
87.02–87.04	856	94.03–94.05	881	103.12–103.14	883
87.14–87.17	858	94.12–94.14	882	103.84–103.86	882
87.36–87.39	859	94.30–94.32	881	104.03–104.06	878
87.56–87.58	880	94.68–94.70	866	104.25–104.27	886
87.67–87.69	878	94.83–94.85	879	104.44–104.46	890

Table 3. (Continued)

Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)	Depth of core samples (m)	Density ($kg \cdot m^{-3}$)
104.65–104.67	882	108.14–108.16	883	115.98–116.00	888
104.85–104.87	881	108.71–108.73	876	116.27–116.29	865
150.07–105.09	891	108.94–108.96	884	117.07–117.10	871
105.54–105.56	869	109.70–109.72	880	117.55–117.57	865
106.04–106.06	873	110.20–110.22	870	121.03–121.05	877
106.57–106.59	887	113.89–113.91	877	123.23–123.25	889
106.86–106.88	887	114.10–114.13	896	123.28–123.30	885
107.37–107.39	881	115.50–115.53	891	123.96–123.98	876
107.66–107.68	888				